

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-21. (Canceled)

22. (Original) A light emitting device comprising:

(a) a primary light source which emits primary light; and

(b) a phosphor material comprising a plurality of nanoparticles, the nanoparticles comprising a Group IV semiconductor, which absorbs at least a portion of the primary light and emits a secondary light, wherein the secondary light or the combination of the secondary light with the primary light comprises a white light.

23. (Original) The light emitting device of claim 22, wherein the primary light is ultraviolet or blue light.

24. (Original) The light emitting device of claim 22, wherein the primary light comprises wavelengths of from 320 nm to 480 nm and the secondary light has a lower energy than the primary light.

25. (Original) The light emitting device of claim 24, wherein the primary light source is a blue light emitting diode or an ultraviolet light emitting diode.

26. (Original) The light emitting device of claim 23, wherein the primary light source is a fluorescent lamp.

27. (Original) The light emitting device of claim 22, wherein the primary light source is an infrared light source and the secondary light has a higher energy than the infrared light.

28. (Original) The light emitting device of claim 27, wherein the primary light source is a red light emitting diode.

29. (Original) The light emitting device of claim 27, wherein the primary light is a halogen lamp or an incandescent lamp.

30. (Original) The light emitting device of claim 22, wherein the nanoparticles have an average particle diameter of from about 1 to about 150 angstroms.

31. (Original) The light emitting device of claim 22, wherein the phosphor material has an emission profile comprising emission peaks in the green to red regions of the visible spectrum.

32. (Original) The light emitting device of claim 22, wherein the phosphor material has an emission profile comprising emission peaks in the blue to red regions of the visible spectrum.

33. (Original) The light emitting device of claim 22, wherein the Group IV semiconductor is silicon.

34. (Original) The light emitting device of claim 22, wherein the Group IV semiconductor is germanium.

35. (Original) The light emitting device of claim 22, wherein the nanoparticles comprises core/shell nanoparticles comprising a Group IV semiconductor core and an inorganic shell.

36. (Original) The light emitting device of claim 35, wherein the inorganic shell comprises ZnS or CdS.

37. (Original) The light emitting device of claim 35, wherein the core comprises silicon and the shell comprises Si_3N_4 or SiC.

38. (Original) The light emitting device of claim 35, wherein the core comprises silicon and the shell comprises Ge.

39. (Original) The light emitting device of claim 35, wherein the core comprises germanium and the shell comprises Si.

40. (Original) The light emitting device of claim 22, wherein the nanoparticles are dispersed in a binder.

41. (Original) The light emitting device of claim 22, wherein the primary light source comprises an electroluminescent device.

42. (Original) The light emitting device of claim 22, wherein the primary light source comprises an organic light emitting material.

43. (Original) The light emitting device of claim 42, wherein the nanoparticles are dispersed in the organic light emitting material.

44-46. (Canceled)

47. (Original) A phosphor material comprising a plurality of domains disposed on an organic film, each domain comprising a plurality of luminescent semiconductor nanoparticles having a substantially monodisperse size distribution.

48. (Original) The phosphor material of claim 47, wherein the organic film has a plurality of luminescent nanoparticles dispersed therein.

49. (Currently Amended) The phosphor material of claim 4748, wherein the luminescent nanoparticles dispersed in the organic film have a substantially monodisperse size distribution.

50. (New) The phosphor material of claim 48, wherein the luminescent nanoparticles dispersed in the organic film have a polydisperse size distribution.

51. (New) The phosphor material of claim 47, wherein the domains have dimensions of no more than about 100 microns.

52. (New) The light emitting device of claim 22, wherein the Group IV semiconductor is doped with impurities.

53. (New) The light emitting device of claim 22, wherein the nanoparticles are embedded in an inorganic binder.

54. (New) The light emitting device of claim 22, wherein nanoparticles comprising a Group IV semiconductor are SiGe alloy nanoparticles.

55. (New) The light emitting device of claim 22, wherein the white light has a color rendering index of at least 90.

56. (New) The light emitting device of claim 22, wherein the device produces white light with an efficiency of at least 30 lm/w.